

CLAIMS

What is claimed is:

- 1 1. A mobile satellite positioning system (SPS) apparatus comprising:
2 an input to receive information to indicate a position of said apparatus; and
3 a data communication interface to provide information to indicate the position
4 of said apparatus to an external device, which external device provides
5 data based on said information to said apparatus via the Internet.
- 1 2. The apparatus of claim 1, wherein said external device is a server which
2 provides said data through the World-Wide Web.
- 1 3. The apparatus of claim 2, wherein said server is coupled to at least one satellite
2 reference station.
- 1 4. The apparatus of claim 1, wherein said data comprises satellite ephemeris
2 information.
- 1 5. The apparatus of claim 4, wherein said satellite ephemeris information is
2 derived from at least one of a reference station comprising an SPS receiver and a wide
3 area reference network (WARN) coupled to said external device.

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1 6. The apparatus of claim 1, wherein said data comprises at least one of a location
2 correction information and time correction information.

1 7. The apparatus of claim 6, wherein said data is derived from at least one of a
2 reference station comprising an SPS receiver and a wide area reference network
3 (WARN) coupled to said external device.

1 8. The apparatus of claim 1, further comprising:
2 a SPS receiver, coupled to said input, to provide said information from a set of
3 satellite signals.

1 9. The apparatus of claim 8, wherein said information is associated with
2 pseudoranges.

1 10. The apparatus of claim 1, further comprising:
2 a memory to store a routine for processing Web documents; and
3 a processor to execute said routine.

1 11. The apparatus of claim 10, wherein said data communication interface is
2 operable to provide a wireless interface to a World-Wide Web gateway.

1 12. The apparatus of claim 10, wherein said data communication interface is
2 operable to provide hard-wired gateway to a World-Wide Web gateway.

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1 13. The apparatus of claim 10, further comprising:
2 a modem, coupled to said memory and processor.

1 14. A method for distributing information associated with a satellite positioning
2 system (SPS), said method comprising:
3 providing data associated with the location of a mobile SPS unit to a system in
4 a network; and
5 in response to said data, said system providing said mobile SPS unit via the
6 Internet information based on the location of said mobile SPS unit.

1 15. The method of claim 14, wherein said system comprises a World-Wide Web
2 (WWW) server, and wherein said data associated with the location of said mobile SPS
3 unit comprises one of: (a) pseudoranges; (b) digitized SPS signals; (c) a location
4 approximation; (d) a position determined from a set of satellite signals received by said
5 mobile SPS unit; and (e) velocity.

1 16. The method of claim 14, wherein said information comprises information
2 derived from SPS-signals.

1 17. The method of claim 14, wherein said information comprises location-based
2 service information derived from one or more databases having stored therein
3 information related to the location of said mobile SPS unit or a location of interest.

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1 18. The method of claim 14, further comprising:
2 said mobile SPS unit determining a set of pseudoranges based on receiving a
3 set of signals; and
4 providing said pseudoranges as said data to said system.

1 19. The method of claim 14, wherein said information comprises ephemeris data
2 derived from said system which includes a reference station having a SPS receiver.

1 20. The method of claim 14, wherein said information comprises almanac data
2 derived from said system which includes a reference station having a SPS receiver.

1 21. The method of claim 14, wherein said information comprises correctional data
2 based on said set of signals and derived from said system which includes a reference
3 station having a SPS receiver.

1 22. The method of claim 14, wherein said information comprises location-based
2 service information based on a geographical area associated with said mobile SPS
3 unit.

1 23. A method for use in a satellite positioning system (SPS), said method
2 comprising:

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3 receiving at a digital processing system coupled to the Internet, data associated
4 with the location of mobile SPS receiver; and
5 said digital processing system providing to said mobile SPS receiver through
6 the World-Wide Web information associated with said location.

1 24. The method of claim 23, wherein said data about the location of said mobile
2 SPS receiver comprises a set of pseudoranges measured by said mobile SPS receiver.

1 25. The method of claim 23, wherein at least one of said data and said information
2 is derived from at least a portion of a set of satellite messages.

1 26. The method of claim 23, wherein said digital processing system comprises a
2 server coupled to an SPS reference station, which comprises an SPS receiver.

1 27. The method of claim 26, wherein said server is a World-Wide Web (WWW)
2 server.

1 28. The method of claim 27, further comprising:
2 said server providing data based on said information associated with said
3 location of said SPS unit to another entity coupled to the Internet; and
4 said server receiving at least one of said information and preliminary data used
5 to derive said information from said entity coupled to the Internet.

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1 29. A method for use in a satellite positioning system (SPS), said method
2 comprising:
3 storing at a Web server coupled to a computer network a first set of data
4 associated with said SPS, said first set of data being based on satellite
5 signals received at a reference station;
6 storing at said Web server a second set of data associated with said SPS, said
7 second set of data being based on data provided to said Web server by
8 a mobile SPS receiver; and
9 based on at least said second set of data, said Web server providing
10 information to said mobile SPS receiver through the World-Wide Web.

1 30. The method of claim 29, wherein said second set of data comprises
2 information associated with a location of said mobile SPS receiver.

1 31. The method of claim 29, wherein said second set of data comprises at least a
2 portion of one or more satellite messages received by said mobile SPS receiver.

1 32. The method of claim 29, further comprising:
2 said Web server providing satellite ephemeris as part of said information.

1 33. The method of claim 29, wherein said information comprises location-based
2 service information.

- 1 34. The method of claim 29, further comprising:
2 said mobile SPS receiver, in response to said information, determining
3 navigational information.
- 1 35. A system for providing location-based information to a mobile client device via
2 the World-Wide Web, in response to receiving data to indicate the location of said
3 mobile client device.

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